## IN THE CLAIMS:

## **Listing of Claims:**

- 1 1. (amended herein) A method for identifying an electronic transmitter device by its
- 2 transmission characteristics, the method comprising the steps of:
- an identifier system receiving an incident transmission emitted by a transmitter
- 4 device, said transmission defined by frequency characteristics including a final resting
- 5 frequency:
- 6 said identifier system generating a unique signature responsive to said
- 7 characteristics of said transmission:
- 8 <u>said identifier system</u> classifying said signature responsive to said final resting
- 9 frequency; and
- 10 <u>said identifier system comparing said signature with a set of other transmission</u>
- 11 signatures.
- 2. (original) The method of Claim 1, wherein said generating comprises generating
- 2 said unique signature by applying a Fourier Transform to said received transmission.
- 1 3. (original) The method of Claim 2, wherein said receiving comprises receiving a
- 2 transmission defined by at least a keyup frequency characteristic in addition to said final
- 3 resting frequency.
- 1 4. (amended herein) The method of Claim 3, further comprising:
- 2 a first generating step prior to said generating step, said first generating step
- 3 comprising said identifier system generating an intermediate frequency sample
- 4 responsive to said received incident transmission, said intermediate frequency sample
- 5 defined by said frequency characteristics; and

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- a second generating step prior to said generating step, said second generating step
- 7 comprising said identifier system generating a digital intermediate frequency sample
- 8 based on said intermediate frequency sample.
- 5. (original) The method of Claim 4, wherein said generating step is responsive to said
- 2 frequency characteristics of said digital intermediate frequency sample.
- 1 6. (amended herein) The method of Claim 5, wherein said comparing step comprises
- 2 said identifier system comparing said transmission signature with a set of other
- 3 transmission signatures, all of said other transmission signatures defined by a final resting
- 4 frequency classification substantially the same as said transmission signature of said
- 5 received transmission.
- 1 7. (amended herein) The method of Claim 6, further comprising a second comparing
- step, said second comparing step being executed by said identifier system when said set
- 3 of other transmission signatures fails to comprise a transmission signature defined by a
- 4 final resting frequency classification substantially the same as said transmission signature
- of said received transmission, said second comparing step comprising said identifier
- 6 system comparing said received transmission signature to one or more sets of other
- 7 transmission signatures defined by final resting frequency classifications not substantially
- 8 the same as said transmission signature of said received transmission.
- 1 8. (amended herein) The method of Claim 7, further comprising a data repository
- 2 addition step after said second comparing when said set of other transmission signatures
- 3 fails to comprise a transmission signature substantially the same as said transmission
- 4 signature of said received transmission, said data repository addition step comprising said
- 5 identifier system adding said transmission signature of said received transmission to a
- 6 data repository.
- 1 9. (amended herein) The method of Claim 8, wherein said data repository addition step
- 2 comprises said identifier system adding said transmission signature of said received
- 3 transmission to a set of said data repository defined by said final resting frequency of said
- 4 received transmission.

- 1 10. (amended herein) A transmitted signal classification system for classifying
- 2 incident radio frequency transmission signals, where said incident radio frequency
- 3 transmission signals emanate from electronic systems not associated with said transmitted
- 4 signal classification system, comprising:
- 5 a receiver for receiving a said incident signal;
- a transmission signature device, said transmission signature device comprising:
- 7 an analog-to-digital converter device for converting said incident signal
- 8 into digital data format;
- a fourier transform generator for generating a transmission signature of said received signal by applying a fourier transform to said digital data;
- a classification system for associating a classification to said transmission

  signature according to the final resting frequency of said incident signal, said associated
- 13 classification being unrelated to any radar cross-section; and
- a matching system for matching said transmission signature of said
- 15 transmission with a set of transmission signatures stored in a data repository associated
- 16 with said matching system.
- 1 11. (canceled herein) The system of Claim 10 wherein said transmission signature
- 2 device further comprises a classification system for associating a classification to said
- 3 transmission signature according to the final resting frequency of said incident signal.
- 1 12. (amended herein) The system of Claim 140, wherein said matching system
- 2 matches said transmission signature with a set of transmission signatures stored in said
- 3 data repository, said set comprising transmission signatures having classifications
- 4 substantially similar to said classification of said received transmission.